RETURN TO TECHNICAL SERVICE BULLETIN TABLE OF CONTENTS
RETURN TO CD-ROM TABLE OF CONTENTS

DrägerService®

Dräger

NARKOMED 6000
TECHNICAL SERVICE BULLETIN # 6007-C

Product: Narkomed 6000

Date: December 20, 2001

Re: Revision to announcement of Narkomed 6000 enhancement program version 2.06.

Reference Doc: IDM 98-Divan

Reason/Rational: Dräger Medical, Inc. (DMI) has released a mandatory enhancement program consisting of software and hardware modifications to be installed on all Narkomed 6000's shipped prior to May 24, 2001. The update program requires use of a Laptop computer fitted with a CD-ROM drive to initially load the software onto the Laptop and networking capabilities to transfer the 2.06 version software to the Narkomed 6000. A kit containing the following items must also be installed for the system to work correctly:

- Enhanced Divan CPU-1 PCB reconfigured with a 6-year Lithium battery and Time Clock replacement interval and 7.40 E-prom set
- CPU-2 with 7.40 E-Prom
- Updated Narkomed 6000 users manuals
- Modified bag mount with ventilator test shunt plug
- Label - Warning: Suction Applied
- GAP $\geq$ 1.03 GAI E-prom and air capacitor
- WPU System I/O clamp and bracket
- Field Service Procedure - Narkomed 6000 Version 2.06 Upgrade

If fitted with optional Integrated Patient Monitor these items are also required:

- Enhanced IPMM pod & revised User IPMM Instruction manual

If fitted with optional Low Flow Wizard or Air Only Mode software options these items are required:

- Key Lock options security modules

Solution/Procedure: Refer to SP00214 for specific installation instructions. The report attached to this bulletin must be completely filled out and faxed or a copy mailed to the Narkomed 6000 Technical Product Manager within 24 hours after the completion of these enhancements. For your convenience a copy of this report is also provided in SP00214.

DrägerService
3122 Commerce Drive
Telford, PA 18969
Tel: (215) 721-5402
(800) 543-5047
Fax: (215) 721-5784
Web: www.draegermed.com

Devices affected: All Narkomed 6000's shipped prior to May 24, 2001. Machine consignee listing will be provided to each responsible Distributor Service Manager or DMI, Regional Service Manager.

Timing/When: Target is to update one hundred units per month and completion of the enhancement program by end of April 2002. Units configured with IPMM pods are of the highest priority for this enhancement. The update schedule will be determined by DMI, Telford based on part availability and planned maintenance schedules. In the interest of reducing labor and travel costs, each responsible Distributor Service Manager and DMI Regional Service Manager shall provide the Narkomed 6000 Technical Product Manager with a complete listing of all Narkomed 6000's contracted for routine maintenance and the next planned service due date. Also on a monthly basis and for the remainder of this program an updated report is required from each manager identifying all machines due the following month and the target date for the maintenance visit.

Additional Info: The enhancements identified in this bulletin are NOT intended to be backward compatible. DMI's standard policy requires that all components and assemblies supplied as spare parts and assemblies shall be supplied at the current ECN released revision level. If a spare part or assembly that is affected by this program requires replacement and these enhancements have not previously been installed it is the responsibility of the service provider to install all required components before returning the device to clinical use. The required compatible configuration levels are as follows:

- Divan CPU-2 with E-prom version 7.40
- Divan CPU-1 with E-prom version 7.40, 6-Year TC & battery labels, P/N 8604038-02
- Bag Arm must contain ventilator leak test port and also a Purple O-ring under its mounting collar. The original test port must also be removed from O2 Flush assembly.
- Table Lamp or Chart Recorder must contain, Label - Suction Applied
- GAP ID label must be part numbers 4112970-006 or 4112970-007
- Processor must contain NM6000 2.06 software and contain System I/O rework label.
- If fitted with IPMM pod label must be 4113465-005 and corresponding User Instruction manual must be 4116574-002.

If the machine contains a Low Flow Wizard and or an Air Only Mode Enabled label near the machine serial number plate the appropriate key-lock shall be ordered and installed on the Processor's parallel printer port and the feature installed in Advanced Service menu.

Costs: DMI's Federal Express account number is available upon request to off set the freight charges of expedient part shipments directly related to this program. Contact DMI's Technical Service Department for additional information. All parts required to complete this modification are supplied at no charge. However DMI reserves the right to invoice the Distributor at the then list price of the new part if items requiring RMA are not returned to DMI within two weeks from the date of shipment. All inbound and outbound shipments shall be standard overnight delivery, except vent test plug's which may be shipped ground.

Ordering Info/Parts: STANDARD CONGIFURATION COMPONENTS

- 4115420-001 CD-ROM NM6000 SOFTWARE-V2.06 (Quantities are limited)
- 4117240 KIT-2.06 UPGRADE-NM6000, requires a Returned Material Authorization, (RMA) for 1 ea. SE8305141 - SE-PCB CPU STANDARD 2, and 1ea. 4114550 - PLUG-BAG ARM

CUSTOMER ORDERED OPTIONAL CONGIFURATION COMPONENTS

- SE4113465-005 IPMM pod requires an RMA for 1 ea. SE4113465-001 - SE-POD ASM-CV 60HZ
- 4116574-002 IPMM Instruction Manual
- 4116920-001 Keylok Low Flow Wizard
- 4116920-002 Keylok Air Only Mode
- 4116920-003 Keylok Low Flow & Air Only

Note: The required quantity of Keyloks will be provided to each DMI Distributor at no charge based on the results of a Marketing Department survey. DMI direct TSR's must order keylok's as required.

Distribution: DrägerService, Authorized Service Organizations

If you have any questions, please contact Technical Support. by phone at 1-800-543-5047 or by fax at 1-215-721-5789

DrägerService®

NARKOMED 6000 - VERSION 2.06 UPDATE REPORT (Rev-C)

After each modification is successfully completed or verified as performed previously, a check mark shall be entered in the Completed/Pass box, and initials entered into the TSR initials box. If the machine is not equipped with an IPMM pod or software options indicate N/A in the corresponding line on the report. If a software option is activated circle the corresponding item. A Technicians signature is required at the completion of each machine's upgrade. Within 24 hours of completion of the machine's upgrade the report shall be faxed to 215-721-5784, or a copy of this report mailed to:

DrägerService
3122 Commerce Drive
Telford, PA 18969
Attention: Ken Horsfield

Hospital Name: _____

Street Address: _____

City: _____

State & Zip: _____

Machine S/N _____

Dispatch # _____

	2.06 FIELD ENHANCEMENT	COMPLETED	TSR
1	IPMM pod exchange SE4113561-001 with SE4113561-005		
2	IPMM Operators Manual update to 2.06		
3	Divan CPU1 upgrade to P/N SE8604038		
4	Divan CPU-2 Firmware update to version 7.40		
5	Narkomed 6000 Operator's Manual update to 2.06		
6	Divan Test Plug removed from O2 Flush Pole.		
7	Bag Arm installed containing a Purple O-ring.		
8	Label – Warning suction applied to Aux. Lamp or SCR		
9	Software Options KeyLok installation		
10	WPU System I/O bracket and clamp		
11	WPU memory clips, expansion PCB's and system cabling connections verifications		
12	Gas Analyzer GAI update to version ≥ 1.03 & Damper installation		
13	2.06 Software Load, Versions and CRC verifications		
14	Pod Based Software update		
15	Software Options activation; (Flow Wiz) (Air Only) (Flow & Air)		

Software Version 2.06 Versions and CRC Values

ITEM	EXPECTED VALUE	PASS	ITEM	EXPECTED VALUE	PASS
NM6K Version	2.06		PBS CRC	0x1D1E	
NM6K CRC	0x3C57		GAP Version	1.15	
Proto Version	1.34		GAP CRC	0xC411	
Proto CRC	0xB5FA		VPO Version	1.13	
Sys1mgr Version	1.34		VPO CRC	0xD73E	
Sys1mgr CRC	0x93ED		CVP Version	1.03	
Nm6kmsg.dll CRC	0x1286		CVP CRC	0xACF9	
Bootup.exe CRC	0xC14F		SCR Version	1.01	
Preboot.exe CRC	0x5791		SCR CRC	0x698B	
PBS Version	1.06				

TECHNICAN: **I.D. #** **DATE:**

DrägerService
3122 Commerce Drive
Telford, PA 18969
Tel: (215) 721-5402
(800) 543-5047
Fax: (215) 721-5784